Serial No. 09/863,078 May 5, 2003 Page 2

BEST AVAILABLE COPY

`∌Å

IN THE CLAIMS:

- 1. (currently amended) A transformer comprising:
- a bobbin having first and second tube-shaped members which are coaxial and integral with one another, said first tube-shaped member being located radially within said second tube-shaped member so as to form a gap located therebetween, and said first and second tube-shaped members being integral with and attached to a common base member;
- a first winding comprising an air-core coil located in said gap between said first and second tube-shaped members of said bobbin; and
 - a second winding affixed to said second tube-shaped member of said bobbin.
- 2. (currently amended) A transformer according to Claim 1, wherein said aircore coil is not affixed to either said first or second tube-shaped members.
- 3. (original) A transformer according to Claim 1, wherein said first winding has a smaller number of turns than said second winding and serves as an input winding which allows a first current associated with a first voltage to flow therethrough, said second winding serving as an output winding which allows a second current associated with a second voltage, higher than said first voltage, to flow therethrough.
- 4. (original) A transformer according to one of Claim 3, further comprising a third winding wound on said second tube-shaped.
- 5. (original) A transformer according to Claim 4, wherein said third winding serves as a feedback winding which allows a current which is smaller than said second current to flow therethrough.
- 6. (original) A transformer according to one of Claim 1, further comprising a third winding, separate from said second winding, located on said second tube-shaped member.

Serial No. 09/863,078 May 5, 2003 Page 3

BEST AVAILABLE COPY

- 7. (original) A transformer according to Claim 6, wherein said third winding serves as a feedback winding which allows a current which is smaller than said second current to flow therethrough.
- 8. (original) A transformer according to claim 1, wherein said first and second tube-shaped members are coupled together by a radially extending base member.
- 9. (original) A transformer according to claim 8, further including terminals extending from said radially extending base member.
- 10. (original) A transformer according to claim 9, wherein at least two of said terminals are coupled to said secondary winding.
 - 11. (currently amended) A transformer comprising:
- a bobbin having first and second axially extending members which are coaxial and integral with one another, said first member being located radially within said second member so as to form a gap therebetween, and said first and second tubeshaped members being integral with and attached to a common base member;
 - a first winding comprising an air-core coil located in said gap; and a second winding affixed to said second member.
- 12. (currently amended) A transformer according to Claim 11, wherein said aircore coil is not affixed to either said first or said second axially extending members.
- 13. (original) A transformer according to Claim 11, wherein said first winding has a smaller number of turns than said second winding and serves as an input winding which allows a first current associated with a first voltage to flow therethrough, said second winding serving as an output winding which allows a second current associated with a second voltage, higher than said first voltage, to flow therethrough.





Serial No. 09/863,078 May 5, 2003 Page 4

BEST AVAILABLE COPY

- 14. (original) A transformer according to one of Claim 13, further comprising a third winding wound on said second axially extending member.
- 15. (original) A transformer according to Claim 14, wherein said third winding serves as a feedback winding which allows a current which is smaller than said second current to flow therethrough.
- 16. (original) A transformer according to one of Claim 1, further comprising a third winding, separate from said second winding, located on said second axially extending member.
- 17. (original) A transformer according to Claim 16, wherein said third winding serves as a feedback winding which allows a current which is smaller than said second current to flow therethrough.
- 18. (original) A transformer according to claim 1, wherein said first and second axially extending members are coupled together by a radially extending base member.
- 19. (original) A transformer according to claim 18, further including terminals extending from said radially extending base member.
- 20. (original) A transformer according to claim 19, wherein at least two of said . terminals are coupled to said secondary winding.